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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/892,878

06/28/2001

Jun Dong Kim

08245.0027

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22852

7590

03/19/2003

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EXAMINER

RAO, SHRINIVAS H

ART UNIT

PAPER NUMBER

2814

DATE MAILED: 03/19/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action

Application No.

09/892,878

Applicant(s)

KIM ET AL.

Examiner

Steven H. Rao

Art Unit

2814

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 06 March 2003 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

PERIOD FOR REPLY [check either a) or b)]

- a) ☒ The period for reply expires 3 months from the mailing date of the final rejection.
- b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

1. ☐ A Notice of Appeal was filed on _____. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.
2. ☒ The proposed amendment(s) will not be entered because:
- (a) ☐ they raise new issues that would require further consideration and/or search (see NOTE below);
- (b) ☒ they raise the issue of new matter (see Note below);
- (c) ☒ they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
- (d) ☐ they present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: See Continuation Sheet.

3. ☒ Applicant's reply has overcome the following rejection(s): none.
4. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
5. ☐ The a) ☐ affidavit, b) ☐ exhibit, or c) ☐ request for reconsideration has been considered but does NOT place the application in condition for allowance because: _____.
6. ☐ The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.
7. ☒ For purposes of Appeal, the proposed amendment(s) a) ☒ will not be entered or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: _____.

Claim(s) objected to: _____.

Claim(s) rejected: 1-10.

Claim(s) withdrawn from consideration: _____.

8. ☐ The proposed drawing correction filed on _____ is a) ☐ approved or b) ☐ disapproved by the Examiner.
9. ☐ Note the attached Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____.
10. ☐ Other: _____.

Continuation of 2. NOTE: Applicants' have proposed amending claims 6 and 8 and dependent claims 7,9 and 10 by changing " material layer " to " patterning layer" however the term patterning layer is not described any where in the specification as originally filed and therefore raises the issue of new matter and therefore cannot be entered.

Applicants' essentially repeat the same arguments which were not found persuasive as set out in the Final rejection and are briefly restated here Applicants' argue that because Ye does not teach the shrinking of the low dielectric film step it also cannot teach " forming gate electrodes by patterning the conductive layer and the gate insulation layer using the shrunken low-K dielectric pattern as a mask." However the rejection is based on combined teachings of Ye which teaches forming gate electrodes by patterning the conductive layer and the gate insulation layer and Lau teaches curing low-dielectric pattern identical to low- K dielectric layer curing and the resulting shrinkage as described in Applicant's specification page 5 lines 9-11 and Table 1. The motivation for curing the polymers as previously stated is to cross link polymers thereby enhance thermal and /or solvent resistant properties of aromatic or fluorinated polymers. It is noted that shrinkage is natural occurring phenomena as a result of the cross-linking similar/same polymers (low-dielectric patterns) similar to that stated by the applicants in their specification.

Claim 6 was alleged to be allowable for the same reasons as claim 1 and dependent claims 2-5 and 7-10 were alleged to be allowable because of their dependency upon allegedly allowable independent claims 1 and 6, however as seen above claim1 is not allowable therefore claims 6 and 2-5 and 7-10 are also not allowable.

SR
3/13/03

LONG PHAM
PRIMARY EXAMINER